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File 5:Biosis Previews(R) 1969-2004/Apr W2
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File 10:AGRICOLA 70-2004/Mar
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Set	Items	Description
? s	brassica or canola or rapeseed	
	32535	BRASSICA
	4851	CANOLA
	9598	RAPESEED
S1	41798	BRASSICA OR CANOLA OR RAPSEED
? s	hydroxy and fatty and acid	
	132142	HYDROXY
	179534	FATTY
	1305784	ACID
S2	3652	HYDROXY AND FATTY AND ACID
? s	densipolic or ricinoleic or lesquerolic or auricolic or lesquirollic	
	13	DENSIPOLIC
	350	RICINOLEIC
	30	LESQUEROLIC
	13	AURICOLIC
	0	LESQUIROLIC
S3	370	DENSIPOLIC OR RICINOLEIC OR LESQUEROLIC OR AURICOLIC OR LESQUIROLIC
? s	s1 and s2 and s3	
	41798	S1
	3652	S2
	370	S3
S4	6	S1 AND S2 AND S3
? t	4/3/1-6	
4/3/1	(Item 1 from file: 5)	
DIALOG(R) File	5:Biosis Previews(R)	
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0010222106 BIOSIS NO.: 199698689939
Substrate selectivity in esterification of less common **fatty** acids
catalysed by lipases from different sources
AUTHOR: Jachmanian I; Schulte E; Mukherjee K D (Reprint)
AUTHOR ADDRESS: Inst. Biochem. Technol. Fette, H. P. Kaufmann-Inst., BAGKF,
Piusallee 68, D-48147 Muenster, Germany**Germany
JOURNAL: Applied Microbiology and Biotechnology 44 (5): p563-567 1996 1996
ISSN: 0175-7598
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: English

4/3/3 (Item 3 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
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0007663295 BIOSIS NO.: 199191046186
MINOR COMPONENTS OF LESQUERELLA-FENDLERI SEED OIL
AUTHOR: CHAUDHRY A (Reprint); KLEIMAN R; CARLSON K D
AUTHOR ADDRESS: US DEP AGRIC, AGRIC RES SERV, NORTHERN REGIONAL RES CENT,
1815 NORTH UNIVERSITY ST, PEORIA, ILL 61604, USA**USA
JOURNAL: Journal of the American Oil Chemists' Society 67 (11): p863-866
1990
ISSN: 0003-021X
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: ENGLISH

4/3/4 (Item 1 from file: 10)
DIALOG(R)File 10:AGRICOLA
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3804039 22025588 Holding Library: AGL
Very long chain and hydroxylated **fatty** acids in offspring of
somatic hybrids between **Brassica** napus and Lesquerella fendleri
Schroder-Pontoppidan, M. Skarzhinskaya, M.; Dixelius, C.; Stymne, S.;
Glimelius, K.
Swedish University, Uppsala.
Berlin; Springer-Verlag
Theoretical and applied genetics. July 1999. v. 99 (1/2) p. 108-111.
ISSN: 0040-5752 CODEN: THAGA6
DNAL CALL NO: 442.8 Z8
Language: English

4/3/5 (Item 2 from file: 10)
DIALOG(R)File 10:AGRICOLA
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3608302 20590375 Holding Library: AGL
Accumulation of **ricinoleic**, **lesquerolic**, and **densipolic**
acids in seeds of transgenic arabidopsis plants that express a **fatty**
acyl hydroxylase cDNA from castor bean
Broun, P. Somerville, C.

4/3/6 (Item 3 from file: 10)

DIALOG(R) File 10:AGRICOLA

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3590267 20577782 Holding Library: AGL

Substrate selectivity in esterification of less common **fatty** acids
catalysed by lipases from different sources

Jachmanian, I. Schulte, E.; Mukherjee, K.D.

Universidad de la Republica, Montevideo, Uruguay.

Berlin, Germany : Springer Verlag.

Applied microbiology and biotechnology. Jan 1996. v. 44 (5) p. 563-567.

ISSN: 0175-7598 CODEN: AMBIDG

DNAL CALL NO: QR1.E9

Language: English

? t 4/5/3

4/5/3 (Item 3 from file: 5)

DIALOG(R) File 5:Biosis Previews(R)

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0007663295 BIOSIS NO.: 199191046186

MINOR COMPONENTS OF LESQUERELLA-FENDLERI SEED OIL

AUTHOR: CHAUDHRY A (Reprint); KLEIMAN R; CARLSON K D

AUTHOR ADDRESS: US DEP AGRIC, AGRIC RES SERV, NORTHERN REGIONAL RES CENT,
1815 NORTH UNIVERSITY ST, PEORIA, ILL 61604, USA**USA

JOURNAL: Journal of the American Oil Chemists' Society 67 (11): p863-866
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ISSN: 0003-021X

DOCUMENT TYPE: Article

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LANGUAGE: ENGLISH

ABSTRACT: Routine analysis of **fatty** ester fractions of Lesquerella fendleri oil suggested the presence of epoxy compounds and other minor components. By a combination of open silica column and high performance liquid chromatography (HPLC) fractionations of the methyl esters prepared from the oil, these constituents were isolated and then characterized by thin-layer chromatography (TLC), gas chromatography (GC), gas chromatography-mass spectrometry (GC-MS-electron ionization, EI, and chemical ionization, CI) and nuclear magnetic resonance (NMR-¹H- and ¹³C). Three epoxy acids, 15,16-epoxy-9,12-octadecadienoic, 9,10-epoxy-12-octadecenoic and 9,10-epoxy-octadecanoic, were found.

Hydroxy acids present included a C-22 homologue of **lesquerolic acid** (16-**hydroxy**-12-docosenoic **acid**) and 14,15-dihydroxy-tricosanoic ***acid***. Other minor components included four sterols, ***brassica***-sterol, campesterol. β -sitosterol and stigmasterol, and a series of saturated and unsaturated ***fatty*** acids up to C30.

DESCRIPTORS: PLANT **FATTY** ESTER FRACTIONS EPOXY COMPOUNDS STEROLS FATS AND OILS AGRICULTURE

DESCRIPTORS:

MAJOR CONCEPTS: Agronomy--Agriculture; Biochemistry and Molecular Biophysics; Reproduction

10066 Biochemistry studies - Lipids
10067 Biochemistry studies - Sterols and steroids
10504 Biophysics - Methods and techniques
10506 Biophysics - Molecular properties and macromolecules
51512 Plant physiology - Reproduction
51522 Plant physiology - Chemical constituents
52514 Agronomy - Oil crops

BIOSYSTEMATIC CODES:

25880 Cruciferae

?